

In the Claims:

Please amend claims 53, 56, 59, and 62 as follows:

53. A process for generating electricity utilizing an integral, power generator comprising a compression stage, a turbine stage, and an electricity generation stage, the process comprising the steps of:

- (a) compressing an oxygen-containing gas in the compression stage;
- (b) heating at least some of the compressed gas in a heating stage;
- (c) introducing fuel and the compressed heated gas into an electrochemical converter for oxidizing the fuel therein to produce electricity, said electrochemical converter also producing hot exhaust gas;
- (d) driving the turbine stage with a turbine drive gas comprising electrochemical converter exhaust gas, the turbine stage driving the electricity generation stage and the compression stage, the generation stage generating electricity; and
- (e) withdrawing spent electrochemical converter exhaust gas and introducing the spent gas into the heating stage for heating the compressed oxygen-containing gas.

56. The process of claim 55, wherein said electrochemical converter operates at a higher temperature than does the turbine stage.

59. A system for generating electricity comprising:

- (a) an integral, power generator comprising a compressor, an electricity generator, and a turbine stage, the compressor having a gas inlet for introducing an oxygen-containing gas into the compressor to generate a compressed oxygen-containing gas;
- (b) a heating stage for heating at least some of the compressed oxygen-containing gas;
- (c) a fuel cell for converting a fuel, in the presence of an oxygen source, into electrical energy, the fuel cell having a gas inlet for receiving heated compressed oxygen-containing gas from the heating stage for use in the fuel cell as the oxygen source, the fuel cell also producing a hot exhaust gas; and

D3  
  
(d) wherein the turbine stage has an inlet for turbine drive gas comprising fuel cell exhaust gas so that the turbine stage drives the generator and the compressor, the generator generating electricity, and wherein the turbine stage has an outlet for hot spent drive gas.

62. A process for generating electricity utilizing an integral, power generator comprising a compression stage, a turbine stage, and an electricity generation stage, all on the same shaft, the process comprising the steps of:

- DH  
  
(a) compressing an oxygen-containing gas in the compression stage;  
(b) heating at least some of the compressed gas in a heating stage;  
(c) introducing fuel and the compressed heated gas into an electrochemical converter for oxidizing the fuel therein to produce electricity, said electrochemical converter also producing hot exhaust gas; and  
(d) driving the turbine stage with a turbine drive gas comprising electrochemical converter exhaust gas, the turbine stage driving the electricity generation stage and the compression stage, the generation stage generating electricity.

Please cancel claim 65.